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L1	2	("5655081" or "5761091").pn.	USPAT	OR	ON	2005/11/09 12:47
L2	70	((718/104,105.ccls.) or (705/8. ccls.)) and resource same correlat$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 12:59
L3	3	((718/104,105.ccls.) or (705/8. ccls.)) and resource same correlat$ same workload	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 12:59
L4	203	((718/104,105.ccls.) or (705/8. ccls.)) and resource same workload	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 12:59
L5	119	((718/104,105.ccls.) or (705/8. ccls.)) and resource same (used or usage or use or consum$) same workload	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 13:00
L6	58	((718/104,105.ccls.) or (705/8. ccls.)) and resource near5 (used or usage or use or consum$) same workload	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 13:00
S1	2	((718/104,105.ccls.) or (705/8. ccls.)) and timestamp same map$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 12:58
S2	2	(("6691067") or ("6564174")).PN.	USPAT	OR	OFF	2005/11/02 14:41
S3	1	("5761091").PN.	USPAT	OR	OFF	2005/11/02 14:47
S4	0	S3 and timestamp	USPAT	OR	ON	2005/11/02 14:47
S5	99	((718/104,105.ccls.) or (705/8. ccls.)) and timestamp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:55

S6	8	((718/104,105.ccls.) or (705/8.ccls.)) and timestamp same resource	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:52
S7	4	((718/104,105.ccls.) or (705/8.ccls.)) and timestamp.ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:56
S8	1441	((718/104,105.ccls.) or (705/8.ccls.)) and time same resource	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:56
S9	218	((718/104,105.ccls.) or (705/8.ccls.)) and time same resource.ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:56
S10	53	((718/104,105.ccls.) or (705/8.ccls.)) and time same resource same comparing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:21
S11	172	((718/104,105.ccls.) or (705/8.ccls.)) and time same resource same usage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:21
S12	100	((718/104,105.ccls.) or (705/8.ccls.)) and time same resource near2 usage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:52
S13	8	((718/104,105.ccls.) or (705/8.ccls.)) and time same resource near2 usage.ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:21

S14	6	((718/104,105.ccls.) or (705/8. ccls.)) and time same resource near2 usage same comparing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:24
S15	22	((718/104,105.ccls.) or (705/8. ccls.)) and resource near2 usage. ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:26
S16	2	time near stamp same resource near2 usage	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:52
S17	266	time same resource near2 usage	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:52
S18	229	time same resource near2 usage. ab.	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:52
S19	18	timestamp same resource	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:54
S20	4599656	time nearstamp same resource	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:54
S21	88	time near stamp same resource	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 15:54
S22	86	S21 not S19	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 16:29
S23	2	resource near2 usage same time adj stamp	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 16:29
S24	15	resource near2 usage same time adj stamp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 16:32

S25	23	resource near5 usage same time adj stamp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 16:32
S26	8	S25 not S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 16:32

Patent Assignment Abstract of Title

Total Assignments: 2

Application #: 08763187 **Filing Dt:** 12/10/1996 **Patent #:** 5761091 **Issue Dt:** 06/02/1998

PCT #: NONE **Publication #:** NONE **Pub Dt:**

Inventors: SUBHASH C. AGRAWAL, KENNETH NEWMAN, CAROL RATHROCK

Title: METHOD AND SYSTEM FOR REDUCING THE ERRORS IN THE MEASUREMENTS OF RESOURCE USAGE IN COMPUTER SYSTEM PROCESSES AND ANALYZING PROCESS DATA WITH SUBSYSTEM DATA

Assignment: 1

Reel/Frame: 008846 / 0187 **Received:** 12/23/1997 **Recorded:** 12/01/1997 **Mailed:** 02/04/1998 **Pages:** 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: AGRAWAL, SUBHASH C. **Exec Dt:** 12/06/1996

NEWMAN, KENNETH **Exec Dt:** 12/06/1996

ROTHROCK, CAROL **Exec Dt:** 12/06/1996

Assignee: BGS SYSTEMS, INC.
ONE FIRST AVENUE
WALTHAM, MASSACHUSETTS 02254

Correspondent: RINES AND RINES
ROBERT H. RINES, ESQUIRE
81 NORTH STATE STREET
CONCORD, NH 03301

Assignment: 2

Reel/Frame: 013362 / 0358 **Received:** 10/11/2002 **Recorded:** 10/08/2002 **Mailed:** 01/17/2003 **Pages:** 2

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignor: BGS SYSTEMS, INC. **Exec Dt:** 04/27/2000

Assignee: BMC SOFTWARE, INC.
2101 CITYWEST BOULEVARD
HOUSTON, TEXAS 77042

Correspondent: WONG, CABELLO, LUTSCH, RUTHERFORD ET AL.
COE F. MILES
20333 SH 249, SUITE 600
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Application #: 08400850   **Filing Dt:** 03/08/1995   **Patent #:** 5655081   **Issue Dt:** 08/05/1997

PCT #: NONE   **Publication #:** NONE   **Pub Dt:**

Inventors: DAVID N. BONNELL, KIRILL L. TATARINOV, MARTIN W. PICARD

Title: SYSTEM FOR MONITORING AND MANAGING COMPUTER RESOURCES AND APPLICATIONS ACROSS A DISTRIBUTED COMPUTING ENVIRONMENT USING AN INTELLIGENT AUTONOMOUS AGENT ARCHITECTURE

Assignment: 1

Reel/Frame: 007707 / 0992   **Received:** 12/01/1995   **Recorded:** 11/13/1995   **Mailed:** 03/26/1996   **Pages:** 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: BONNELL, DAVID N.   **Exec Dt:** 10/12/1995

            TATARINOV, KIRILL L.   **Exec Dt:** 10/12/1995

            PICARD, MARTIN W.   **Exec Dt:** 08/28/1995

Assignee: BMC SOFTWARE, INC.
2101 CITYWEST BOULEVARD
HOUSTON, TEXAS 77042

Correspondent: ALAN R. THIELE
C/O VINSON & ELKINS L.L.P.
2300 FIRST CITY TOWER
1001 FANNIN ST.
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Patent Assignment Abstract of Title

Total Assignments: 1

Application #: 10014337 **Filing Dt:** 12/10/2001   **Patent #:** NONE   **Issue Dt:**

      PCT #: NONE   **Publication #:** US20020116441   **Pub Dt:** 08/22/2002

    Inventors: Yiping Ding, Kenneth Newman

        Title: System and method for automatic workload characterization

Assignment: 1

Reel/Frame: 012652 / 0025   **Received:** 03/13/2002   **Recorded:** 02/28/2002   **Mailed:** 05/03/2002   **Pages:** 3

   Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

    Assignors: DING, YIPING   **Exec Dt:** 01/31/2002

                       NEWMAN, KENNETH   **Exec Dt:** 01/31/2002

    Assignee: BMC SOFTWARE
                       2101 CITY WEST BLVD.
                       HOUSTON, TEXAS 77042

Correspondent: CONLEY, ROSE & TAYON, P.C.
                       JEFFREY C. HOOD
                       P.O. BOX 398
                       AUSTIN, TX 78767-0398

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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced
Studies on Collaborative research**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

> Understanding distributed applications is a tedious and difficult task. Visualizations based
> on process-time diagrams are often used to obtain a better understanding of the
> execution of the application. The visualization tool we use is Poet, an event tracer
> developed at the University of Waterloo. However, these diagrams are often very complex
> and do not provide the user with the desired overview of the application. In our
> experience, such tools display repeated occurrences of non-trivial commun ...

2 A methodology for workload characterization of E-commerce sites
Daniel A. Menascé, Virgilio A. F. Almeida, Rodrigo Fonseca, Marco A. Mendes
November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**
Publisher: ACM Press
Full text available: 📄 pdf(304.31 KB)   Additional Information: full citation, references, citings, index terms

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1 A static analysis of I/O characteristics of scientific applications in a production workload
B. K. Pasquale, G. C. Polyzos
December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**
Publisher: ACM Press
Full text available: 📄 pdf(1.08 MB)   Additional Information: full citation, references, citings, index terms
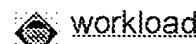
2 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(385.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

4 Internet Web servers: workload characterization and performance implications
Martin F. Arlitt, Carey L. Williamson
October 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5
Publisher: IEEE Press

Full text available: pdf(216.86 KB)   Additional Information: full citation, references, citings, index terms, review

Keywords: World-Wide Web, caching, performance evaluation, workload characterization

5 Parallelism in relational data base systems: architectural issues and design approaches
Hamid Pirahesh, C. Mohan, Josephine Cheng, T. S. Liu, Pat Selinger
July 1990 **Proceedings of the second international symposium on Databases in parallel and distributed systems**
Publisher: ACM Press

Full text available: pdf(2.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

With current systems, some important complex queries may take days to complete because of: (1) the volume of data to be processed, (2) limited aggregate resources. Introducing parallelism addresses the first problem. Cheaper, but powerful computing resources solve the second problem. According to a survey by Brodie,1 only 10% of computerized data is in data bases. This is an argument for both more variety and volume of data to be moved into data base systems. We conject ...

6 Process migration
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

7 Predicting the future: resource requirements and predictive optimism
Bradley L. Noble, Roger D. Chamberlain
July 1995 **ACM SIGSIM Simulation Digest , Proceedings of the ninth workshop on Parallel and distributed simulation PADS '95**, Volume 25 Issue 1
Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms
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The partitioning of systems for parallel simulation is a complex task, requiring consideration of both computational load requirements and communications activity.

Typically, this information is not accurately known prior to execution. This paper investigates the use of historical information for the prediction of future requirements, both for computation and communications. In addition, for optimistic simulation algorithms, we present a novel technique (which we call predictive optimism) w ...

Keywords: binary prediction schemes, communications activity, computational load requirements, discrete event simulation, future requirements, historical information, message passing, optimistic simulation algorithms, overall simulator performance, parallel programming, parallel simulation, predictive optimism, processor scheduling, resource allocation, resource requirements, rollbacks

8 RAID: high-performance, reliable secondary storage

Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson

June 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(3.60 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

Keywords: RAID, disk array, parallel I/O, redundancy, storage, striping

9 Exploiting process lifetime distributions for dynamic load balancing

Mor Harchol-Balter, Allen B. Downey

August 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(557.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

We consider policies for CPU load balancing in networks of workstations. We address the question of whether preemptive migration (migrating active processes) is necessary, or whether remote execution (migrating processes only at the time of birth) is sufficient for load balancing. We show that resolving this issue is strongly tied to understanding the process lifetime distribution. Our measurements indicate that the distribution of lifetimes for a UNIX process is Pareto (heavy-tailed), with ...

Keywords: Pareto distribution, heavy-tailed, load balancing, load sharing, migration, network of workstations, remote execution, trace-driven simulation, workload modeling

10 An integrated metric for video QoS

Nalini Venkatasubramanian, Klara Nahrstedt

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(1.99 MB)   Additional Information: full citation, references, citings, index terms

11

Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Publisher: ACM Press

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

12 Performance of image and video processing with general-purpose processors and media ISA extensions
Parthasarathy Ranganathan, Sarita Adve, Norman P. Jouppi
May 1999 **ACM SIGARCH Computer Architecture News , Proceedings of the 26th annual international symposium on Computer architecture ISCA '99**, Volume 27 Issue 2
Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(141.14 KB)   Additional Information: full citation, abstract, references, citings, index terms
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This paper aims to provide a quantitative understanding of the performance of image and video processing applications on general-purpose processors, without and with media ISA extensions. We use detailed simulation of 12 benchmarks to study the effectiveness of current architectural features and identify future challenges for these workloads.Our results show that conventional techniques in current processors to enhance instruction-level parallelism (ILP) provide a factor of 2.3X to 4.2X performa ...

13 Operational performance metrics in a distributed system. Part II.: Metrics and interpretation
Robert L. Braddock, Michael R. Claunch, J. Walter Rainbolt
March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**
Publisher: ACM Press

Full text available: pdf(1.09 MB)   Additional Information: full citation, references, index terms

14 Exploiting regularities in Web traffic patterns for cache replacement
Edith Cohen, Haim Kaplan
May 1999 **Proceedings of the thirty-first annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(979.40 KB)   Additional Information: full citation, references, citings, index terms

15

Experimental comparison of memory management policies for NUMA

multiprocessors
Richard P. Larowe, Carla Schlatter Ellis
November 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 4
Publisher: ACM Press
Full text available: pdf(3.17 MB)   Additional Information: full citation, references, citings, index terms

16 File system usage in Windows NT 4.0
Werner Vogels
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press
Full text available: pdf(1.75 MB)   Additional Information: full citation, abstract, references, citings, index terms

We have performed a study of the usage of the Windows NT File System through long-term kernel tracing. Our goal was to provide a new data point with respect to the 1985 and 1991 trace-based File System studies, to investigate the usage details of the Windows NT file system architecture, and to study the overall statistical behavior of the usage data.In this paper we report on these issues through a detailed comparison with the older traces, through details on the operational characteristics and ...

17 Exploiting process lifetime distributions for dynamic load balancing
Mor Harchol-Balter, Allen B. Downey
May 1996 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '96**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

We measure the distribution of lifetimes for UNIX processes and propose a functional form that fits this distribution well. We use this functional form to derive a policy for preemptive migration, and then use a trace-driven simulator to compare our proposed policy with other preemptive migration policies, and with a non-preemptive load balancing strategy. We find that, contrary to previous reports, the performance benefits of preemptive migration are significantly greater than those of non-pree ...

18 A binary feedback scheme for congestion avoidance in computer networks
K. K. Ramakrishnan, R. Jain
May 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 2
Publisher: ACM Press
Full text available: pdf(1.84 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We propose a scheme for congestion avoidance in networks using a connectionless protocol at the network layer. The scheme uses a minimal amount of feedback from the network to the users, who adjust the amount of traffic allowed into the network. The routers in the network detect congestion and set a congestion-indication bit on packets flowing in the forward direction. The congestion indication is communicated back to the users through the transport-level a ...

19 RCBR: a simple and efficient service for multiple time-scale traffic
Matthias Grossglauser, Srinivasan Keshav, David N. C. Tse
December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

Publisher: IEEE Press

Full text available: pdf(617.74 KB)   Additional Information: full citation, references, citings, index terms, review

Keywords: compressed video, multiple time scales, renegotiation, variable bit-rate service

20 RCBR: a simple and efficient service for multiple time-scale traffic

M. Grossglauser, S. Keshav, D. Tse

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

Compressed video traffic is expected to be a significant component of the traffic mix in integrated services networks. This traffic is hard to manage, since it has strict delay and loss requirements, but at the same time, exhibits burstiness at multiple time-scales. In this paper, we observe that slow time-scale variations can cause sustained peaks in the source rate, substantially degrading performance. We use large deviation theory to study this problem and to motivate the design of Renegotiat ...

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21 A simulation model of GECOS III

Kenneth E. Norland, William C. Bulgren
January 1971 **Proceedings of the 1971 26th annual conference**
Publisher: ACM Press

Full text available: 📄 pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings, index terms

A simulation model for a multiprogramming operating system has been devised and programmed in Simscript. Essential elements of the environment have been included such as job arrival rate, maximum number of jobs, the operating system overhead and peripheral and core allocation. Some allowances are made for time-sharing, as well as remote and normal batch jobs. The model is patterned basically after GECOS III, on the H-600 line computer. The hardware constraints considered when necessary are ...

Keywords: Computer system analysis, Multiprogramming, Simulation

22 Quality is in the eye of the beholder: meeting users' requirements for Internet quality of service

Anna Bouch, Allan Kuchinsky, Nina Bhatti
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press

Full text available: 📄 pdf(863.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

Growing usage and diversity of applications on the Internet makes Quality of Service (QoS) increasingly critical [15]. To date, the majority of research on QoS is systems oriented, focusing on traffic analysis, scheduling, and routing. Relatively minor attention has been paid to user-level QoS issues. It is not yet known how objective system quality relates to users' subjective perceptions of quality. This paper presents the results of quantitative experiments that establish a mapping between ...

Keywords: Internet, quality of service, user perception

23

An inter-reference gap model for temporal locality in program behavior

Vidyadhar Phalke, Bhaskarpillai Gopinath
May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95,** Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

The property of locality in program behavior has been studied and modelled extensively because of its application to memory design, code optimization, multiprogramming etc. We propose a *k* order Markov chain based scheme to model the sequence of time intervals between successive references to the same address in memory during program execution. Each unique address in a program is modelled separately. To validate our model, which we call the Inter-Reference Gap (IRG) model, we show substant ...

Keywords: Markov chains, dynamic memory management, locality of reference, memory replacement, prediction, trace compaction, trace driven simulation

24 Progress-based regulation of low-importance processes

John R. Douceur, William J. Bolosky
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99,** Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.53 MB)   Additional Information: full citation, abstract, references, citings, index terms

MS Manners is a mechanism that employs progress-based regulation to prevent resource contention with low-importance processes from degrading the performance of high-importance processes. The mechanism assumes that resource contention that degrades the performance of a high-importance process will also retard the progress of the low-importance process. MS Manners detects this contention by monitoring the progress of the low-importance process and inferring resource contention from a drop in the p ...

Keywords: process priority, progress-based feedback, symmetric resource contention

25 Scalable cross-module optimization

Andrew Ayers, Stuart de Jong, John Peyton, Richard Schooler
May 1998 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1998 conference on Programming language design and implementation PLDI '98,** Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

Large applications are typically partitioned into separately compiled modules. Large performance gains in these applications are available by optimizing across module boundaries. One barrier to applying crossmodule optimization (CMO) to large applications is the potentially enormous amount of time and space consumed by the optimization process.We describe a framework for scalable CMO that provides large gains in performance on applications that contain millions of lines of code. Two major techni ...

26 Input/output characteristics of scalable parallel applications

Phyllis E. Crandall, Ruth A. Aydt, Andrew A. Chien, Daniel A. Reed

December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(2.11 MB) Additional Information: full citation, abstract, references, citings, index terms
html(2.96 KB)
Publisher Site

Rapid increases in computing and communication performance are exacerbating the long-standing problem of performance-limited input/output. Indeed, for many otherwise scalable parallel applications. input/output is emerging as a major performance bottleneck. The design of scalable input/output systems depends critically on the input/output requirements and access patterns for this emerging class of large-scale parallel applications. However, hard data on the behavior of such applications is only ...

27 Workload models of VBR video traffic and their use in resource allocation policies

Pietro Manzoni, Paolo Cremonesi, Giuseppe Serazzi

June 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 3

Publisher: IEEE Press

Full text available: pdf(390.58 KB)   Additional Information: full citation, references, citings, index terms

Keywords: burstiness, communication systems performance, delay-sensitive traffic, multimedia communication, networks

28 TPC-D—the challenges, issues and results

Ramesh Bhashyam

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(428.16 KB)   Additional Information: full citation, abstract, index terms

This paper covers what we at NCR have learned about the TPC-D benchmark as we executed and published our first set of volume points for the Teradata Database. Areas where customers should read the Full Disclosure Report carefully are pointed out as well as the weaknesses in the benchmark relative to real customer applications. The key execution and optimization elements of the Teradata Database and the 5100 WorldMark platform that contribute to our published results are discussed.

29 In search of invariants for e-business workloads

Daniel Menascé, Virgílio Almeida, Rudolf Riedi, Flávia Ribeiro, Rodrigo Fonseca, Wagner Meira

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Publisher: ACM Press

Full text available: pdf(4.11 MB)   Additional Information: full citation, references, citings, index terms

Keywords: WWW, e-commerce, heavy-tailed distribution, performance modeling, workload characterization

30 Parallel and distributed simulation

Richard M. Fujimoto

December 1995 **Proceedings of the 27th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(884.98 KB)   Additional Information: full citation, references, citings, index terms

31 Column: Value-based scheduling in real-time database systems

Jayant R. Haritsa, Michael J. Carey, Miron Livny

April 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 2 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.13 MB)   Additional Information: full citation, abstract, references, citings

In a real-time database system, an application may assign a *value* to a transaction to reflect the return it expects to receive if the transaction commits before its deadline. Most research on real-time database systems has focused on systems where all transactions are assigned the same value, the performance goal being to minimize the number of missed deadlines. When transactions are assigned different values, the goal of the system shifts to maximizing the sum of the values of those tran ...

Keywords: priority and concurrency algorithms, priority mapping, resource and data contention, transaction values and deadlines

32 A methodology for workload characterization of E-commerce sites

Daniel A. Menascé, Virgilio A. F. Almeida, Rodrigo Fonseca, Marco A. Mendes

November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**

Publisher: ACM Press

Full text available: pdf(304.31 KB)   Additional Information: full citation, references, citings, index terms

33 Dictionary-based order-preserving string compression

Gennady Antoshenkov

February 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(203.08 KB)   Additional Information: full citation, abstract, index terms

As no database exists without indexes, no index implementation exists without order-preserving key compression, in particular, without prefix and tail compression. However, despite the great potentials of making indexes smaller and faster, application of general compression methods to ordered data sets has advanced very little. This paper demonstrates that the fast dictionary-based methods can be applied to order-preserving compression almost with the same freedom as in the general case. The pro ...

Keywords: Indexing, Order-preserving key compression

34 Improving interactive performance using TIPME

Yasuhiro Endo, Margo Seltzer

June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index terms

On the vast majority of today's computers, the dominant form of computation is GUI-based user interaction. In such an environment, the user's perception is the final arbiter of performance. Human-factors research shows that a user's perception of performance is

affected by unexpectedly long delays. However, most performance-tuning techniques currently rely on throughput-sensitive benchmarks. While these techniques improve the average performance of the system, they do littl ...

Keywords: interactive performance, monitoring

35 Performance management activities within UNIX International

CORPORATE UNIX International

December 1993 **ACM SIGMETRICS Performance Evaluation Review**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(715.26 KB)   Additional Information: full citation, abstract, index terms

The primary output of the UNIX International Work Group on Performance Measurement is a set of requirements and recommendations to UNIX International and UNIX System Laboratories for the development of standard performance measurement interfaces to the UNIX System. Requirements will be based on the collective, non-vendor specific needs for a standard performance architecture. Currently the lack of this standard causes undue porting and kernel additions by each UNIX System vendor as well as a gre ...

36 Modeling, evaluation, and testing of paradyn instrumentation system

Abdul Waheed, Diane T. Rover, Jeffrey K. Hollingsworth

November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '96**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(225.73 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a case study of modeling, evaluating, and testing the data collection services (called an instrumentation system) of the Paradyn parallel performance measurement tool using well-known performance evaluation and experiment design techniques. The overall objective of the study is to use modeling- and simulation-based evaluation to provide feedback to the tool developers to help them choose system configurations and task scheduling policies that can significantly reduce the ...

37 An examination of strategies for estimating capacity to share among private workstations

Matt W. Mutka

May 1991 **Proceedings of the 1991 ACM SIGSMALL/PC symposium on Small systems**

Publisher: ACM Press

Full text available: pdf(984.42 KB)   Additional Information: full citation, references, citings, index terms

38 A load index for dynamic load balancing

Demenico Ferrari, Songnian Zhou

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Publisher: IEEE Computer Society Press

Full text available: pdf(812.11 KB)   Additional Information: full citation, references, citings, index terms

39 Prototype II: A job selection simulation model

Thomas A. Byrne, Alan V. Piercey, Frank L. Myers

June 1973 **Proceedings of the 1st symposium on Simulation of computer systems**

Publisher: IEEE Press

Full text available: 📄 pdf(995.35 KB)   Additional Information: full citation, abstract, index terms

Optimization of a multiprogramming computer configuration is a complex task. The most common approach in establishing a mix of resources and a classing/initiator configuration is to make an educated guess and, over a period of time, to make refinements through a series of increasingly more educated guesses. This paper describes an alternate approach to optimization of resources and job selection through simulation. This use of simulation departs from the accepted simulation philosophy in th ...

40 Session 3: Energy-aware OS's: The benefits of event: driven energy accounting in power-sensitive systems

Frank Bellosa

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: 📄 pdf(86.80 KB)   Additional Information: full citation, abstract, references, citings

A prerequisite of energy-aware scheduling is precise knowledge of any activity inside the computer system. Embedded hardware monitors (e.g., processor performance counters) have proved to offer valuable information in the field of performance analysis. The same approach can be applied to investigate the energy usage patterns of individual threads. We use information about active hardware units (e.g., integer/floating-point unit, cache/memory interface) gathered by event counters to establish a t ...

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41 Measurement and modeling of computer reliability as affected by system activity   ▦
R. K. Iyer, D. J. Rossetti, M. C. Hsueh
August 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(1.44 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper demonstrates a practical approach to the study of the failure behavior of computer systems. Particular attention is devoted to the analysis of permanent failures. A number of important techniques, which may have general applicability in both failure and workload analysis, are brought together in this presentation. These include: smeared averaging of the workload data, clustering of like failures, and joint analysis of workload and failures. Approximately 17 percent of all failure ...

42 Analysis of navigation behaviour in web sites integrating multiple information systems   ▦
Bettina Berendt, Myra Spiliopoulou
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1
Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(281.14 KB)   Additional Information: full citation, abstract, citings, index terms

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

43 The design, implementation and evaluation of SMART: a scheduler for multimedia   ▦
applications
Jason Nieh, Monica S. Lam
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth**

ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.48 MB)   Additional Information: full citation, references, citings, index terms

44 Survey articles: Web usage mining: discovery and applications of usage patterns from Web data

Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(1.44 MB)   Additional Information: full citation, abstract, references, citings

Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing, pattern discovery*, and *pattern analysis*. This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

45 Network performance reporting

K. Terplan

April 1982 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the Computer Network Performance Symposium**, Volume 11 Issue 1

Publisher: ACM Press

Full text available: pdf(655.20 KB)   Additional Information: full citation, abstract, references, index terms

Managing networks using Network Administration Centers is increasingly considered. After introducing the information demand for operational, tactical and strategic network management the paper is dealing with the investigation of the applicability of tools and techniques for these areas. Network monitors and software problem determination tools are investigated in greater detail. Also implementation details for a multihost-multinode network including software and hardware tools combined by ...

46 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory

November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(156.16 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number of issues associated with its design and execution that remain unsettled. Some methodologies used in the evaluation are questionable and may have biased its results. One problem is that the evaluators have published relatively little concer ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

47

A binary feedback scheme for congestion avoidance in computer networks with a connectionless network layer

K. K. Ramakrishnan, R. Jain

August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols SIGCOMM '88**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a scheme for congestion avoidance in networks using a connectionless protocol at the network layer. The scheme uses feedback from the network to the users of the network. The interesting challenge for the scheme is to use a minimal amount of feedback (one bit in each packet) from the network to adjust the amount of traffic allowed into the network. The servers in the network detect congestion and set a congestion indication bit on packets flowing ...

48 A binary feedback scheme for congestion avoidance in computer networks with a connectionless network layer

K. K. Ramakrishnan, Raj Jain

January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, index terms

We propose a scheme for *congestion avoidance* in networks using a connectionless protocol at the network layer. The scheme uses feedback from the network to the users of the network. The interesting challenge for the scheme is to use a minimal amount of feedback (one bit in each packet) from the network to adjust the amount of traffic allowed into the network. The servers in the network detect congestion and set a *congestion indication* bit on packets flowing in the forward d ...

49 Load distribution and balancing support in a workstation-based distributed system

D. Arredondo, M. Errecalde, F. Piccoli, M. Printista, R. Gallard, s. Flores

April 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(871.22 KB)   Additional Information: full citation, abstract, citings, index terms

In distributed systems, load distribution and balancing are primary functions addressed to improvements on system performance and additional user comfort. Incoming task allocation and remote process execution are main responsibilities of a well designed system to achieve such performance improvements. Both aspects involve a number of non trivial tasks.As a basement for further automatic system decision in a distributed environment, this paper propose a user-supervised processor allocation schedu ...

Keywords: distributed system, job scheduling, load balancing, load distribution, remote execution

50 Automatic rule induction for unknown-word guessing

Andrei Mikheev

September 1997 **Computational Linguistics**, Volume 23 Issue 3

Publisher: MIT Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Words unknown to the lexicon present a substantial problem to NLP modules that rely on

morphosyntactic information, such as part-of-speech taggers or syntactic parsers. In this paper we present a technique for fully automatic acquisition of rules that guess possible part-of-speech tags for unknown words using their starting and ending segments. The learning is performed from a general-purpose lexicon and word frequencies collected from a raw corpus. Three complimentary sets of word-guessing rule ...

51 Network management using expert diagnostics

Wayne Fuller

August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, citings, index terms

Networks have become a key component of the corporate infrastructure. Managing the networks, which often carry a diverse set of information (e.g. voice, data, video) over a diverse set of media (e.g. wire, cable, RF) with a mixture of owned and leased transmission assets that are often geographically distributed and run a diverse set of protocols, is a major challenge. One of the most promising techniques applies expert system approaches to the management of networks. Co ...

52 Dynamic power management using adaptive learning tree

Eui-Young Chung, Luca Benini, Giovanni De Micheli

November 1999 **Proceedings of the 1999 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Press

Full text available: pdf(120.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Dynamic Power Management (DPM) is a technique to reduce power consumption of electronic systems by selectively shutting down idle components. The quality of the shutdown control algorithm (power management policy) mostly depends on the knowledge of user behavior, which in many in many cases is initially unknown or non-stationary. For this reason, DPM policies should be capable of adapting to changes in user behavior. In this paper, we present a novel DPM scheme based on idle period ...

53 Xunet 2: lessons from an early wide-area ATM testbed

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert C. Restrick

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Publisher: IEEE Press

Full text available: pdf(231.69 KB)   Additional Information: full citation, references, index terms

Keywords: asynchronous transfer mode, available bit rate, constant bit rate, variable bit rate

54 A configuration management approach for large workflow management systems

Hans Schuster, Jens Neeb, Ralf Schamburger

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

Scalability to large, heterogeneous, and distributed environments is an important

requirement for workflow management systems (WfMS). As a consequence, the management of the configuration of a WfMS installation becomes a key issue. This paper proposes an approach for managing the configuration of WfMS together with an assignment strategy for workflow instances. Separating the logical issues of the workflow model from the physical configuration of a WfMS is the basis of our strategy. A formalizat ...

Keywords: configuration, scalability, workflow management system

55 Slow memory: the rising cost of optimism

Richard A. Meyer, Jay M. Martin, Rajive L. Bagrodia

May 2000 **Proceedings of the fourteenth workshop on Parallel and distributed simulation**

Publisher: IEEE Computer Society

Full text available: pdf(823.10 KB)   Additional Information: full citation, references, index terms

56 Adaptive parallel aggregation algorithms

Ambuj Shatdal, Jeffrey F. Naughton

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.11 MB)   Additional Information: full citation, abstract, references, citings, index terms

Aggregation and duplicate removal are common in SQL queries. However, in the parallel query processing literature, aggregate processing has received surprisingly little attention; furthermore, for each of the traditional parallel aggregation algorithms, there is a range of grouping selectivities where the algorithm performs poorly. In this work, we propose new algorithms that dynamically adapt, at query evaluation time, in response to observed grouping selectivities. Performance analysis via ana ...

57 An architecture design and assessment system for software/hardware codesign

Connie U. Smith, Geoffrey A. Frank, John L. Cuadrado

June 1985 **Proceedings of the 22nd ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available: pdf(908.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

Codesign of hardware and software for high performance signal processing systems is important if the potential benefits of VLSI are to be realized. This article describes a CAD system developed to support the codesign of hardware and software architectures for high performance digital signal processors which is based on a directed graph methodology. A comprehensive example is developed to demonstrate the use of the system, the fundamentals of the modeling and analysis methodology are discus ...

58 An architecture for a secure service discovery service

Steven E. Czerwinski, Ben Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(1.47 MB)   Additional Information: full citation, references, citings, index terms

59 Self-similarity in file systems

Steven D. Gribble, Gurmeet Singh Manku, Drew Roselli, Eric A. Brewer, Timothy J. Gibson, Ethan L. Miller

June 1998 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '98/PERFORMANCE '98,** Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(1.31 MB)   Additional Information: full citation, abstract, references, citings, index terms

We demonstrate that high-level file system events exhibit self-similar behaviour, but only for short-term time scales of approximately under a day. We do so through the analysis of four sets of traces that span time scales of milliseconds through months, and that differ in the trace collection method, the filesystems being traced, and the chronological times of the tracing. Two sets of detailed, short-term file system trace data are analyzed; both are shown to have self-similar like behaviour, w ...

60 Replacement policies for a proxy cache

Luigi Rizzo, Lorenzo Vicisano

April 2000 **IEEE/ACM Transactions on Networking (TON),** Volume 8 Issue 2

Publisher: IEEE Press

Full text available: pdf(277.42 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Web, caching, communication networks, policies, replacement

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61 A contention/reservation access protocol for speech and data integration in TDMA-based advanced mobile systems
Giuseppe Anastasi, Davide Grillo, Luciano Lenzini, Enzo Mingozzi
June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1
Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(909.75 KB) Additional Information: full citation, abstract, references, index terms, review

The performance of third generation mobile systems is greatly influenced by the multiple access protocols used in the radio access system. The paper introduces a multiple access protocol, SIR (Service Integration for Radio access), which has the potential for accommodating the requirements of speech and bursty data traffic in an efficient way. SIR is evolved from an access protocol (PRMA++) studied within the framework of the TDMA-based version of the European evolving standard for third ge ...

62 Characterising program behaviour with phases and transitions
J. M. Murphy, R. B. Bunt
May 1988 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1988 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '88**, Volume 16 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(632.24 KB) Additional Information: full citation, abstract, references, citings, index terms

A detailed quantitative study of program behaviour is described. Reference strings from a representative set of programs were decomposed into phases and transitions. Referencing behaviour is studied at both the macro level (program-wide) and the micro level (within the phases and transitions). Quantitative data, suitable for the parameterization of program behaviour models, is presented.

63 Bimodal multicast
Kenneth P. Birman, Mark Hayden, Oznur Ozkasap, Zhen Xiao, Mihai Budiu, Yaron Minsky
May 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(302.06 KB) Additional Information: full citation, abstract, references, citings, index terms

There are many methods for making a multicast protocol "reliable." At one end of the spectrum, a reliable multicast protocol might offer tomicity guarantees, such as all-or-nothing delivery, delivery ordering, and perhaps additional properties such as virtually synchronous addressing. At the other are protocols that use local repair to overcome transient packet loss in the network, offering "best effort" reliability. Yet none of this prior work has treated stability ...

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